

**REPORT ON DETAILED SOIL SURVEY AND LAND
USE OF 2A3C3j AND 2A3C3k SUB-WATERSHEDS OF
LOWER GANGA BASIN P.S. KUNDAHIT AND NALA,
DIST. JAMTARA, JHARKHAND**

873

ABSTRACT

1. a) **Survey area** : 2A3C3j and 2A3C3k sub-watersheds of Lower Ganga Basin P.S. Kundahit and Nala, Dist.- Jamtara of Jharkhand State
- b) **Geographical locations** : 2A3C3j and 2A3C3k subwatershed lies between parallels of $23^{\circ}58'$ to $24^{\circ}3'30''$ N latitude and meridians of $86^{\circ}57'30''$ to $87^{\circ}10'30''$ E longitudes
- c) **Total area mapped** : 5681 ha
2. **Type of Survey** : Detailed Soil Survey
3. **Base map used** : Cadastral map on $16'' = 1$ mile scale
4. **Agro Climatic Zone** : Eastern plateau and hills (zone no.7) as per national planning commission.
5. **Period of Survey** : December'2001 to March'2002

6. Sub watershedwise Distribution of Soil Series and their Extent of Area (ha)

Sl.No.	Name of Soil Series	No. of mapping units	Total area (ha)	Sub-watershes	
				2A3C3j	2A3C3k
1.	Ambabank (AK)	5	223 (3.9)	155 (4.7)	68 (2.8)
2.	Barmasia (BM)	5	569 (10.0)	360 (11.0)	209 (8.7)
3.	Bhandarbera (BH)	4	140 (2.5)	44 (1.3)	96 (4.0)
4.	Dumka (D)	8	473 (8.3)	292 (9.0)	181 (7.5)
5.	Karaya (K)	4	653 (11.5)	306 (9.3)	347 (14.4)
6.	Kundahit (KD)	4	89 (1.6)	89 (2.7)	-
7.	Kunjabona (KJ)	5	104 (1.8)	54 (1.6)	50 (2.1)
8.	Maheshpur (MP)	10	1760 (31.0)	1183 (36.1)	577 (23.9)
9.	Mahula (ML)	6	704 (12.4)	225 (7.0)	479 (20.0)
10.	Pokhariya (PK)	6	521 (9.2)	304 (9.3)	217 (9.0)
11.	Misc.	-	445 (7.8)	263 (8.0)	182 (7.6)
Grand total		57	5681 (100)	3275	2406

• Value in Parenthesis indicates percentage

7. Distribution of Area under various land capability classes

Sl.No.	Land Capability Class	Aria (ha)	Percentage %	Series
1.	II	1360	24.0	Ambabank, Barmasia, Bhandarbera, Karaya, Kundahit, Kunjabona, Pokhariya
2.	III	3158	55.6	Kunjabona, Maheshpur, Mahula, Pokhariya, Ambabank, Barmasia, Bhandarbera, Karaya, Kundahit
3.	IV	718	12.6	Dumka, Kunjabona, Maheshpur, Mahula
4.	Misc.	445	7.8	
	Total	5681	100	

8. **Sub watershed wise Area(ha) Under different Erosion Classes and their Percentage**

Sl.No.	Erosion Class	2A3C3j	2A3C3k	Total
1.	Slight (e1)	1633 (50.0)	1121 (46.6)	2754 (96.6)
2.	Moderate (e2)	1266 (38.6)	1077 (44.8)	2343 (83.4)
3.	Severe (e3)	113 (3.4)	26 (1.1)	139 (4.5)
	Total %	3012 (92.0)	2224 (92.5)	5236 (92.2)
	Misc.	263 (8.0)	182 (7.5)	445 (7.8)
	Grand Total	3275 (100)	2406 (100)	5681 (100)

- *Value in Parenthesis indicates percentage*